ABSTRACT

An image processing apparatus is an apparatus for determining a gaze from a motion picture of a face taken by a monocular camera, and is configured to define a 3D structure of a center of a pupil on the facial

5   picture by a static parameter and a dynamic parameter, and to determine the gaze by estimating the static parameter and the dynamic parameter. Another image processing apparatus is an apparatus for determining a motion of a 3D object from a motion picture thereof taken by a monocular camera, and is configured to define a 3D structure of the 3D

10   object on the picture by a rigid parameter and a non-rigid parameter, and to determine the motion of the 3D object by estimating the rigid parameter and the non-rigid parameter.